Round Lake
Wabash County
2007 Fish Management Report

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EXECUTIVE SUMMARY

- Round Lake is a 48-acre natural lake located near Laketon, in northwest Wabash County. Round Lake is relatively shallow with a maximum depth of 24 ft, and an average depth of 11 ft.

- Submersed aquatic plants were sampled on August 9, 2007 according to the Tier II Aquatic Vegetation Survey Protocol (IDNR 2007).

- A total of four native species and one non-native species were collected. Chara sp. was most common (frequency = 37%), followed by Eurasian watermilfoil, and sago pondweed (frequencies = 30%, and 17%, respectively).

- The general survey of Round Lake was conducted from June 11 to June 12, 2007.

- Fish collection effort consisted of 0.75 h of pulsed D.C. night electrofishing with two dippers. Two trap nets and three experimental gill nets were set overnight.

- A total of 773 fish, weighing 190.94 lbs was collected during this survey. Bluegills were the most abundant fish collected by number (73%), followed by largemouth bass (11%), and gizzard shad (4%).

- A total of 564 bluegills, ranging in total length from 1.9 to 7.8 in was collected at Round Lake. Bluegills of quality size (6 in or greater) comprised 87% of the sample.

- A total of 85 largemouth bass was collected at Round Lake. Length range of largemouth bass collected was 3.6 to 14.7 in, and included two fish over the 14 in minimum size limit.

- Round Lake is currently providing good angling opportunities for several sport fish including bluegill and largemouth bass.

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INTRODUCTION

Round Lake is a 48-acre natural lake located near Laketon, in northwest Wabash County. Round Lake is relatively shallow with a maximum depth of 24 ft, and an average depth of 11 ft. The inlet, which flows from Mud Lake, enters along the northwest shoreline, while the outlet is located along the southwest shoreline and flows into the Eel River. Approximately 30% of the shoreline remains undeveloped and is considered natural. The majority of natural shoreline is located along the northwest portion of the lake, while the remaining shorelines are highly developed. There is currently no state owned access site on Round Lake. However a boat ramp located at the American Legion Post on the east side of the lake is available for public use at no charge. Due to limited access no previous general fish surveys have been conducted on Round Lake.

METHODS

The general survey of Round Lake was conducted from June 11 to June 12, 2007. Temperature and oxygen profiles were collected at the deepest point using a Hydrolab Quanta®. Submersed aquatic plants were sampled on August 9, 2007 according to the Tier II Aquatic Vegetation Survey Protocol (IDNR 2007). A global positioning system device was used to record the location of submersed aquatic vegetation sampling locations.

Fish collection effort consisted of 0.75 h of pulsed D.C. night electrofishing with two dippers. Two trap nets and three experimental gill nets were set overnight (Figure 1). Total length of all fish was measured to the nearest 0.1 in and weight was measured to the nearest 0.01 lbs. Five scales per half-inch group were collected from bluegill, largemouth bass, and yellow perch for age determination and back-calculated lengths-at-age. Length frequency distribution for reporting purposes will be grouped in half-inch groups which are defined as X.0 – X.4 and X.5 – X.9. Age length keys were also constructed to determine mean length at age. Proportional stock density (PSD) was calculated for bluegills and largemouth bass using electrofishing catch only (Anderson and Neumann 1996).

RESULTS

On June 11 the water temperature was 75.6ºF at the surface and a dissolved oxygen concentration greater than 3.0 ppm was present down to a depth of 12 ft. Submersed plants were recorded at a maximum depth of 8 ft, in August of 2007. A total of four native species and one

non-native species were collected. Chara sp. was most common (frequency = 37%), followed by Eurasian watermilfoil, and sago pondweed (frequencies = 30%, and 17%, respectively).

A total of 773 fish, weighing 190.94 lbs was collected during this survey. Bluegills were the most abundant fish collected by number (73%), followed by largemouth bass (11%), and gizzard shad (4%). Bluegills were also the most abundant collected by weight (33%), followed by largemouth bass (18%), and common carp (15%).

A total of 564 bluegills, ranging in total length from 1.9 to 7.8 in was collected at Round Lake. The electrofishing, gill net, and trap net catch rates were 376 fish/h, 1 fish/lift, and 140 fish/lift, respectively. The PSD for bluegill was 43, and no preferred size (8 in) fish were collected during electrofishing. Bluegills of quality size (6 in or greater) comprised 87% of the sample. Based on the age length key and back calculated lengths at age the majority of bluegills reach 6 in between ages 4 - 5.

A total of 85 largemouth bass was collected at Round Lake. The electrofishing, gill net, and trap net catch rates were 104 fish/h, 2 fish/lift, and 0 fish/lift, respectively. Total length of largemouth bass collected ranged from 3.6 to 14.7 in, and included two fish over the 14 in minimum size limit. The PSD for largemouth bass during this survey was 21. Of the largemouth bass collected 85% were less than 12 in. Based on the age length key and back calculated lengths at age the majority of largemouth bass reach 12 in by age 4.

A total of 16 yellow perch, ranging in total length from 3.7 to 10.7 in was collected. Of the 16 yellow perch collected, 5 were greater than 6 in. The electrofishing, gill net, and trap net catch rates were 15 fish/h, 1 fish/lift, and 1 fish/lift, respectively.

Other species worth noting include channel catfish, spotted gar, and common carp. Six channel catfish, ranging in total length from 11.6 to 23.0 in were collected. Of the 10 spotted gar collected the largest was 25.2 in and 50% were greater than 20 in. Seven common carp were collected, with the largest weighing 6.26 lbs.

DISCUSSION

Round Lake is currently providing good angling opportunities for several sport fish including bluegills and largemouth bass. The bluegill population appears to be overabundant and competition may be limiting the production of bluegills of preferred size (8 in). Intraspecific competition for food is likely responsible for growth rates that are well below the natural lakes average. However, the majority of the bluegill fishery is currently comprised of harvestable

sized fish, and is still providing good bluegill angling opportunities. The abundance and growth of largemouth bass in Round Lake is considered average, and the population is in good shape. Although, the abundance of several other species is considered to be low including yellow perch, channel catfish, and black crappie, these species are still available and may be providing a bonus catch for anglers on a limited basis.

The plant community and water quality within Round Lake is likely being impacted by watershed activities. While species like carp and suckers can also contribute to poor water quality, these species are not overly abundant and their impacts in Round Lake are negligible. It is possible that water quality, the plant community, and the fishery within Round Lake would all benefit from improvements within the watershed.

RECOMMENDATIONS

- Currently there is no state public access site available on any natural lake in Wabash County. The DFW should continue efforts to obtain a public access site on Round Lake.

- The DFW and Round Lake residents should continue efforts to protect and conserve all remaining natural shoreline at Round Lake.

- The Lake and River Enhancement Program (LARE) provides technical and financial assistance to address non-point source pollution and exotic species within watersheds. One of the goals of this program is to protect or enhance aquatic habitat and recreational opportunities on Indiana's lakes and streams. A lake association should be formed by Round Lake residents to utilize the LARE program for enhancement of water quality within the Round Lake watershed.

LITERATURE CITED

Anderson, R. O., and R. M. Neumann. 1996. Length, weight, and associated structural indices. Pages 447-481 *in* B. R. Murphy and D. W. Willis, editors. Fisheries techniques, 2nd edition. American Fisheries Society, Bethesda, Maryland.

Indiana Department of Natural Resources. 2007. Tier II Aquatic Vegetation Survey Protocol. Indianapolis, Indiana.

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Date: February 7, 2008

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Date: February 13, 2008

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Date: March 3, 2008

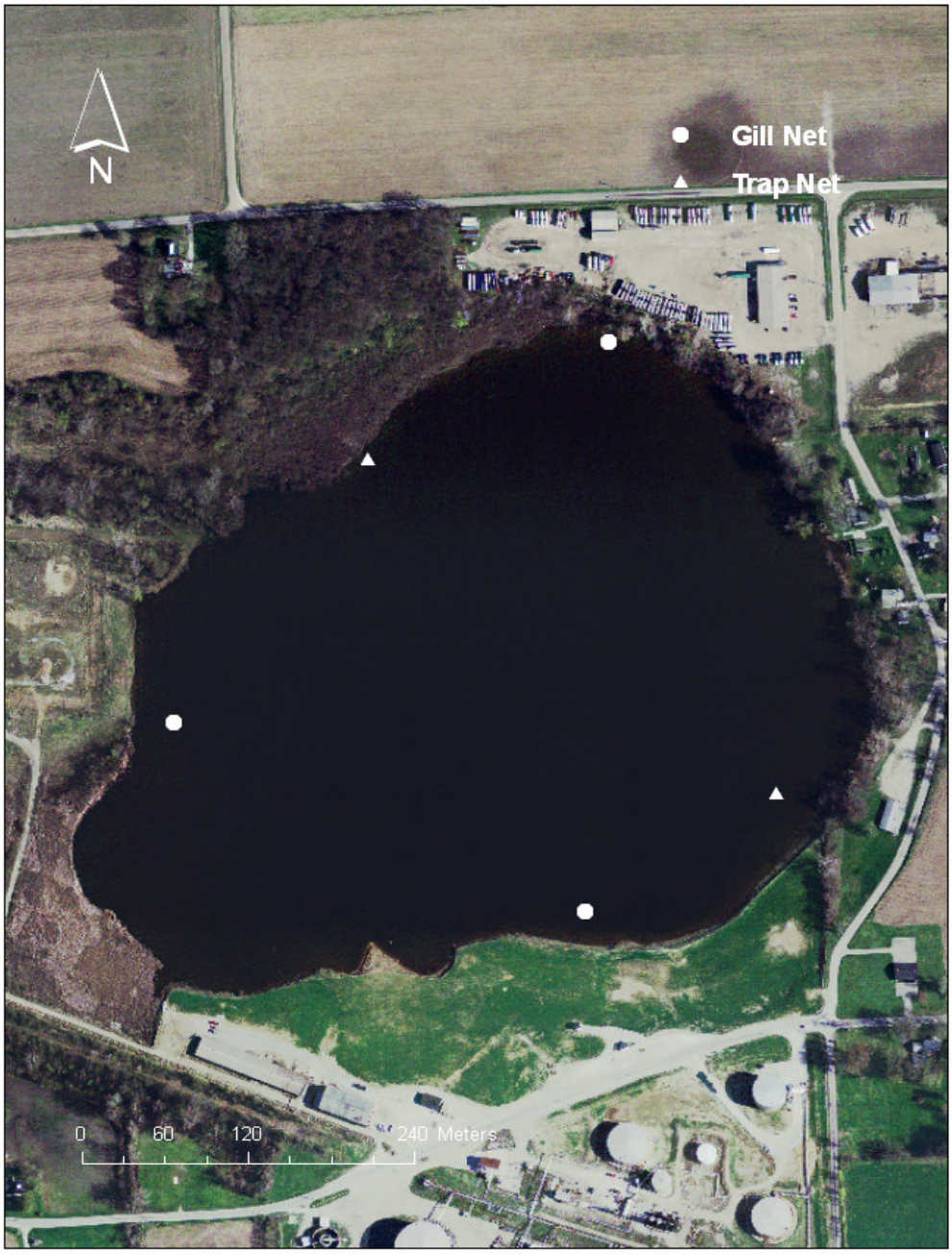

Figure 1. Sampling gear locations at Round Lake, Wabash County, Indiana in June 2007.

Appendix
Lake Pages

LAKE SURVEY REPORT

Type of Survey: [x] Initial Survey [ ] Re-Survey

Lake Name	County	Date of survey (Month, day, year)
Round Lake	Wabash	6/11/2007-6/12/2007
Biologist's name		Date of survey (Month, day, year)
Rod A. Edgell		6/11/2007-6/12/2007

LOCATION

Quadrangle Name	Range	Section
North Manchester South, IN	29 North	R6E
Township Name	Nearest Town	
Pleasant	Laketon	

ACCESSIBILITY

State owned public access site	Privately owned public access site	Other access site
None	East Shore, American Legion Post	Laketon Conservation Club

Surface acres	Maximum depth	Average depth	Acre feet	Water level	Extreme fluctuations
48	24	11ft		470	2 ft

Location of benchmark

INLETS

Name	Location	Origin
Unamed Ditch	Northwest Corner	Mud Lake

OUTLETS

Name	Location
Unamed Ditch	Southwest Corner

Water level control: None

POOL	ELEVATION (Feet MSL)	ACRES
TOP OF DAM		
TOP OF FLOOD CONTROL POOL		
TOP OF CONSERVATION POOL		
TOP OF MINIMUM POOL		
STREAMBED		

Bottom type

[ ]	Boulder
[x]	Gravel
[x]	Sand
[x]	Muck
[ ]	Clay
[ ]	Marl

Watershed use: Agriculture, Industrial, and Urban

Development of shoreline: Approximately 70% developed.

Previous surveys and investigations: None

SAMPLING EFFORT					
ELECTROFISHING	Day hours		Night hours		Total hours
	0		0.75		0.75
TRAP NETS	Number of traps		Number of Lifts		Total effort
	2		1		2
GILL NETS	Number of nets		Number of Lifts		Total effort
	3		1		3
ROTENONE	Gallons	ppm	Acre Feet Treated	SHORELINE SEINING	Number of 100 Foot Seine Hauls

Round Lake

PHYSICAL AND CHEMICAL CHARACTERISTICS						
Color	Turbidity				Air temperature:	68 F
Tan/Green	3	Feet	6	Inches (SECCHI DISK)		
Water chemistry GPS coordinates:	N			W		

WATER QUALITY PARAMETERS															
DEPTH (Feet)	Degrees (F)	D.O.	SpC	pH	TDS	D.O.%	Turb.	DEPTH	Degrees (F)	D.O.	SpC	pH	TDS	D.O.%	Turb.
SURFACE	75.6	8.68	0.536	8.19	0.3	106.8	41.3	52							
2	75.6	8.57	0.536	8.18	0.3	105.5	39	54							
4	75.3	8.51	0.536	8.17	0.3	104.4	37.6	56							
6	74.4	8.06	0.54	8.13	0.4	98	33.8	58							
8	73.5	7.4	0.545	8.04	0.4	98.1	32.8	60							
10	71.6	6.85	0.554	7.91	0.4	80.8	34.4	62							
12	66.3	5.14	0.579	7.61	0.4	57.2	47.2	64							
14	59.4	2.1	0.601	7.36	0.4	21.5	47	66							
16	53.3	0.52	0.606	7.27	0.4	4.9	49.8	68							
18	50.3	0.07	0.615	7.14	0.4	0.6	47.2	70							
20	48.5	0	0.631	7.01	0.4	0	43.7	72							
22	48	0	0.638	6.92	0.4	0	44.3	74							
22.8	47.8	0	0.669	6.84	0.4	0	5999	76							
26								78							
28								80							
30								82							
32								84							
34								86							
36								88							
38								90							
40								92							
42								94							
44								96							
46								98							
48								100							
50															

COMMENTS

Occurrence and Abundance of Submersed Aquatic Plants - Overall

Lake: Round Lake	Secchi(ft): 4.2	SE Mean species / site:	0.21
Date: 8/9/2007	Littoral sites with plants: 15	Mean natives / site:	0.67
Littoral Depth (ft): 8.0	Number of species: 5	SE Mean natives / site:	0.16
Littoral Sites: 16	Maximum species / site: 3	Species diversity:	0.72
Total Sites: 30	Mean species / site: 0.97	Native diversity:	0.61

	Frequency of	Score Frequency				
Species	**Occurrence**	**0**	**1**	**3**	**5**	**Dominance**
Chara sp.	36.7	63.3	30.0	6.7	0.0	10.0
Eurasian watermilfoil	30.0	70.0	16.7	13.3	0.0	11.3
Sago pondweed	16.7	83.3	13.3	3.3	0.0	4.7
Large-leaf pondweed	10.0	90.0	3.3	6.7	0.0	4.7
Leafy pondweed	3.3	96.7	3.3	0.0	0.0	0.7
Filamentous Algae	0.0					

Other species noted:

Occurrence and Abundance of Submersed Aquatic Plants - 0 to 5 ft.

Lake: Round Lake	Secchi(ft): 4.2	SE Mean species / site:	0.25
Date: 8/9/2007	Littoral sites with plants: 10	Mean natives / site:	1.40
Littoral Depth (ft): 8.0	Number of species: 4	SE Mean natives / site:	0.22
Littoral Sites: 10	Maximum species / site: 3	Species diversity:	0.70
Total Sites: 10	Mean species / site: 1.80	Native diversity:	0.58

	Frequency of	Score Frequency				
Species	**Occurrence**	**0**	**1**	**3**	**5**	**Dominance**
Chara sp.	80.0	20.0	70.0	10.0	0.0	20.0
Eurasian watermilfoil	40.0	60.0	20.0	20.0	0.0	16.0
Large-leaf pondweed	30.0	70.0	10.0	20.0	0.0	14.0
Sago pondweed	30.0	70.0	20.0	10.0	0.0	10.0
Filamentous Algae	0.0					

Other species noted:

Occurrence and Abundance of Submersed Aquatic Plants - 5 to 10 ft.

Lake: Round Lake	Secchi(ft): 4.2	SE Mean species / site: 0.43
Date: 8/9/2007	Littoral sites with plants: 5	Mean natives / site: 0.60
Littoral Depth (ft): 8.0	Number of species: 4	SE Mean natives / site: 0.31
Littoral Sites: 6	Maximum species / site: 3	Species diversity: 0.68
Total Sites: 10	Mean species / site: 1.10	Native diversity: 0.61

	Frequency of	Score Frequency				
Species	**Occurrence**	**0**	**1**	**3**	**5**	**Dominance**
Eurasian watermilfoil	50.0	50.0	30.0	20.0	0.0	18.0
Chara sp.	30.0	70.0	20.0	10.0	0.0	10.0
Sago pondweed	20.0	80.0	20.0	0.0	0.0	4.0
Leafy pondweed	10.0	90.0	10.0	0.0	0.0	2.0
Filamentous Algae	0.0					

Other species noted:

SPECIES AND RELATIVE ABUNDANCE OF FISHES COLLECTED BY NUMBER AND WEIGHT					
*COMMON NAME OF FISH	NUMBER	PERCENT	LENGTH RANGE (inches)	WEIGHT (pounds)	PERCENT
Bluegill	564	73.0	1.9-7.8	63.66	33.3
Largemouth Bass	85	11.0	3.6-14.7	33.89	17.7
Gizzard Shad	31	4.0	10.9-14.0	21.18	11.1
Yellow Perch	16	2.1	3.7-10.7	1.44	0.8
White Sucker	13	1.7	8.1-14.6	9.63	5.0
Spotted Gar	10	1.3	13.5-25.2	8.34	4.4
Spotted Sucker	9	1.2	6.3-16.1	5.22	2.7
Yellow Bullhead	8	1.0	6.1-11.2	2.75	1.4
Common Carp	7	0.9	16.9-25.3	27.79	14.6
Warmouth	7	0.9	5.5-7.8	1.52	0.8
Channel Catfish	6	0.8	11.6-23.0	11.43	6.0
Brown Bullhead	5	0.6	9.5-13.4	2.91	1.5
Brook Silverside	4	0.5	2.4-2.9	0.01	0.0
Pumpkinseed	2	0.3	6.2-6.3	0.38	0.2
Hybrid Sunfish	2	0.3	5.5-5.9	0.26	0.1
Black Crappie	2	0.3	5.8-8.0	0.36	0.2
Redear Sunfish	1	0.1	2.7	0.01	0.0
Green Sunfish	1	0.1	6	0.16	0.1
Total (17 Species and 1 Hybrid)	773	100.0		190.94	100.0

*Common names of fishes recognized by the American Fisheries Society.

					TN	GN	EF
Lake:	Round Lake			Total #	280	2	282
Date:	6/11/2007	to	6/12/2007	Effort	2	3	0.75
Species:	Bluegill			CPUE	140	1	376
Total number:	564						
Total weight:	63.6625						
Length range:	1.9	to	7.8				

Group	TL (in)	TN	GN	EF	TOTAL	RSD
Stock	3	227	2	258	487	-
Quality	6	150	2	110	262	43
Preferred	8	0	0	0	0	
Memorable	10	0	0	0	0	
Trophy	12	0	0	0	0	

Length group (in)	#	Mean weight (lbs)	Length group (in)	#	Mean weight (lbs)	Length group (in)	#	Mean weight (lbs)
1.0			17.5			34.0		
1.5	7	0.00	18.0			34.5		
2.0	45	0.01	18.5			35.0		
2.5	25	0.01	19.0			35.5		
3.0	35	0.02	19.5			36.0		
3.5	35	0.03	20.0			36.5		
4.0	30	0.04	20.5			37.0		
4.5	38	0.06	21.0			37.5		
5.0	32	0.08	21.5			38.0		
5.5	55	0.11	22.0			38.5		
6.0	77	0.14	22.5			39.0		
6.5	92	0.18	23.0			39.5		
7.0	80	0.22	23.5			40.0		
7.5	13	0.26	24.0			40.5		
8.0			24.5			41.0		
8.5			25.0			41.5		
9.0			25.5			42.0		
9.5			26.0			42.5		
10.0			26.5			43.0		
10.5			27.0			43.5		
11.0			27.5			44.0		
11.5			28.0			44.5		
12.0			28.5			45.0		
12.5			29.0			45.5		
13.0			29.5			46.0		
13.5			30.0			46.5		
14.0			30.5			47.0		
14.5			31.0			47.5		
15.0			31.5			48.0		
15.5			32.0			48.5		
16.0			32.5			49.0		
16.5			33.0			49.5		
17.0			33.5			50.0		

					TN	GN	EF
Lake:	Round Lake			Total #	0	7	78
Date:	6/11/2007	to	6/12/2007	Effort	2	3	0.75
Species:	Largemouth bass			CPUE	0	2	104
Total number:	85						
Total weight:	33.89						
Length range:	3.6	to	14.7				

Group	TL (in)	TN	GN	EF	TOTAL	RSD
Stock	8	0	7	53	60	-
Quality	12	0	2	11	13	21
Preferred	15	0	0	0	0	
Memorable	20	0	0	0	0	
Trophy	25	0	0	0	0	

Length group (in)	#	Mean weight (lbs)	Length group (in)	#	Mean weight (lbs)	Length group (in)	#	Mean weight (lbs)
1.0			17.5			34.0		
1.5			18.0			34.5		
2.0			18.5			35.0		
2.5			19.0			35.5		
3.0			19.5			36.0		
3.5	4	0.02	20.0			36.5		
4.0	1	0.03	20.5			37.0		
4.5	5	0.04	21.0			37.5		
5.0	4	0.06	21.5			38.0		
5.5	3	0.07	22.0			38.5		
6.0	5	0.09	22.5			39.0		
6.5	1	0.15	23.0			39.5		
7.0	1	0.15	23.5			40.0		
7.5	1	0.16	24.0			40.5		
8.0	4	0.23	24.5			41.0		
8.5	4	0.29	25.0			41.5		
9.0	9	0.33	25.5			42.0		
9.5	4	0.37	26.0			42.5		
10.0	2	0.45	26.5			43.0		
10.5	6	0.52	27.0			43.5		
11.0	12	0.56	27.5			44.0		
11.5	6	0.63	28.0			44.5		
12.0	7	0.70	28.5			45.0		
12.5	2	0.81	29.0			45.5		
13.0	1	0.95	29.5			46.0		
13.5	1	1.17	30.0			46.5		
14.0	1	1.02	30.5			47.0		
14.5	1	1.52	31.0			47.5		
15.0			31.5			48.0		
15.5			32.0			48.5		
16.0			32.5			49.0		
16.5			33.0			49.5		
17.0			33.5			50.0		

					TN	GN	EF
Lake:	Round Lake			Total #	0	22	9
Date:	6/11/2007	to	6/12/2007	Effort	2	3	0.75
Species:	Gizzard shad			CPUE	0	7	12
Total number:	31						
Total weight:	21.18						
Length range:	10.9	to	14.0				

Group	TL (in)	TN	GN	EF	TOTAL	RSD
Stock	7	0	22	9	31	-
Quality	11	0	21	9	30	100
Preferred	0	0	0	0	0	
Memorable	0	0	0	0	0	
Trophy	0	0	0	0	0	

Length group (in)	#	Mean weight (lbs)	Length group (in)	#	Mean weight (lbs)	Length group (in)	#	Mean weight (lbs)
1.0			17.5			34.0		
1.5			18.0			34.5		
2.0			18.5			35.0		
2.5			19.0			35.5		
3.0			19.5			36.0		
3.5			20.0			36.5		
4.0			20.5			37.0		
4.5			21.0			37.5		
5.0			21.5			38.0		
5.5			22.0			38.5		
6.0			22.5			39.0		
6.5			23.0			39.5		
7.0			23.5			40.0		
7.5			24.0			40.5		
8.0			24.5			41.0		
8.5			25.0			41.5		
9.0			25.5			42.0		
9.5			26.0			42.5		
10.0			26.5			43.0		
10.5	1	0.50	27.0			43.5		
11.0	1	0.51	27.5			44.0		
11.5	2	0.59	28.0			44.5		
12.0	8	0.35	28.5			45.0		
12.5	12	0.77	29.0			45.5		
13.0	4	0.94	29.5			46.0		
13.5	2	1.08	30.0			46.5		
14.0	1	1.09	30.5			47.0		
14.5			31.0			47.5		
15.0			31.5			48.0		
15.5			32.0			48.5		
16.0			32.5			49.0		
16.5			33.0			49.5		
17.0			33.5			50.0		

					TN	GN	EF
Lake:	Round Lake			Total #	1	4	11
Date:	6/11/2007	to	6/12/2007	Effort	2	3	0.75
Species:	Yellow perch			CPUE	1	1	15
Total number:	16						
Total weight:	1.44						
Length range:	3.7	to	10.7				

Group	TL (in)	TN	GN	EF	TOTAL	RSD
Stock	5	0	4	1	5	-
Quality	8	0	3	0	3	
Preferred	10	0	2	0	2	
Memorable	12	0	0	0	0	
Trophy	15	0	0	0	0	

Length group (in)	#	Mean weight (lbs)	Length group (in)	#	Mean weight (lbs)	Length group (in)	#	Mean weight (lbs)
1.0			17.5			34.0		
1.5			18.0			34.5		
2.0			18.5			35.0		
2.5			19.0			35.5		
3.0			19.5			36.0		
3.5	6	0.02	20.0			36.5		
4.0	5	0.02	20.5			37.0		
4.5			21.0			37.5		
5.0			21.5			38.0		
5.5			22.0			38.5		
6.0	1	0.10	22.5			39.0		
6.5	1	0.09	23.0			39.5		
7.0			23.5			40.0		
7.5			24.0			40.5		
8.0			24.5			41.0		
8.5			25.0			41.5		
9.0	1	0.28	25.5			42.0		
9.5			26.0			42.5		
10.0	1	0.41	26.5			43.0		
10.5	1	0.34	27.0			43.5		
11.0			27.5			44.0		
11.5			28.0			44.5		
12.0			28.5			45.0		
12.5			29.0			45.5		
13.0			29.5			46.0		
13.5			30.0			46.5		
14.0			30.5			47.0		
14.5			31.0			47.5		
15.0			31.5			48.0		
15.5			32.0			48.5		
16.0			32.5			49.0		
16.5			33.0			49.5		
17.0			33.5			50.0		

Back-calculated lengths-at-age for bluegill captured at Round Lake, Wabash County, Indiana in June 2007.

		Age							
Year Class	# Aged	I	II	III	IV	V	VI	VII	VIII
2006	7	1.7							
	SD	0.1							
2005	15	1.6	2.7						
	SD	0.5	0.5						
2004	13	1.6	2.5	3.6					
	SD	0.2	0.2	0.5					
2003	17	1.4	2.6	3.6	5.1				
	SD	0.2	0.4	0.5	0.6				
2002	9	1.4	2.2	3.6	4.7	5.4			
	SD	0.2	0.3	0.5	0.7	0.8			
2001	6	1.4	2.4	3.8	4.8	6.0	6.8		
	SD	0.1	0.3	0.6	0.5	0.3	0.3		
2000	1	1.6	2.8	4.4	4.7	6.1	7.0	7.4	
	SD								
1999	1	1.6	2.8	4.3	5.5	6.2	7.3	7.5	7.7
	SD								
Mean*		1.5	2.5	3.6	4.9	5.7	6.8		
SD		0.2	0.4	0.5	0.6	0.6	0.3		

*Does not include age groups with less than three samples.

Age-length key for bluegill captured at Round Lake, Wabash County, Indiana in June 2007.

Length	# in	# (age) in	Age							
Group	sample	subsample	1	2	3	4	5	6	7	8
1.0										
1.5	7	2(1)	7							
2.0	45	5(1)	45							
2.5	25	5(2)		25						
3.0	35	4(2), 2(3)		23	12					
3.5	35	4(2), 1(3)		28	7					
4.0	30	1(2), 4(3), 1(5)		5	20		5			
4.5	38	1(2), 4(3), 1(4)		6	26	6				
5.0	32	2(3), 5(4)			9	23				
5.5	55	5(4), 1(5)				46	9			
6.0	77	4(4), 2(5)				51	26			
6.5	92	2(4), 2(5)				46	46			
7.0	80	3(5), 4(6)					34	46		
7.5	13	2(6), 1(7), 1(8)						7	3	3
Mean TL			2.2	3.4	4.3	6.1	6.6	7.3	7.8	7.8
SE			0.02	0.06	0.07	0.04	0.06	0.02		

Back-calculated lengths-at-age for largemouth bass captured at Round Lake, Wabash County, Indiana in June 2007.

		Age				
Year Class	# Aged	I	II	III	IV	V
2006	4	3.1				
	SD	0.3				
2005	25	3.2	5.9			
	SD	0.7	1.7			
2004	15	3.3	6.2	8.7		
	SD	0.8	1.8	1.8		
2003	21	3.4	6.7	9.5	11.2	
	SD	1.1	1.8	1.4	1.0	
2002	2	2.7	5.1	8.3	10.2	11.7
	SD	0.6	0.7	2.6	2.8	2.7
Mean*		3.2	6.3	9.1	11.2	
SD		0.3	0.1	0.3	1.0	

*Does not include age groups with less than three samples.

Age-length key for largemouth bass captured at Round Lake, Wabash County, Indiana in June 2007.

Length Group	# in sample	# (age) in subsample	Age					
			1	2	3	4	5	6
3.5	4	4(1)	4					
4.0	1	1(2)		1				
4.5	5	4(2)		5				
5.0	4	3(2), 1(3)		3	1			
5.5	3	2(2), 1(3)		2	1			
6.0	5	5(2)		5				
6.5	1	1(2)		1				
7.0	1	1(2)		1				
7.5	1	1(3)			1			
8.0	4	3(2), 1(3)		3	1			
8.5	4	1(2), 2(3), 1(4)		1	2	1		
9.0	9	2(2), 3(3)		4	5			
9.5	4	1(2), 3(3)		1	3			
10.0	2	1(3), 1(5)			1		1	
10.5	6	4(4)				6		
11.0	12	2(3), 5(4)			3	9		
11.5	6	1(3), 3(4)			1	5		
12.0	7	3(4)				7		
12.5	2	2(4)				2		
13.0	1	1(4)				1		
13.5	1	1(5)					1	
14.0	1							
14.5	1	1(6)						1
Mean TL			3.8	6.7	9.4	11.5	12.0	14.8
SE			0.00	0.34	0.38	0.16	1.75	

Back-calculated lengths-at-age for yellow perch captured at Round Lake, Wabash County, Indiana in June 2007.

		Age						
Year Class	# Aged	I	II	III	IV	V	VI	VII
2006	3	3.1						
	SD	0.4						
2005	6	3.1	3.7					
	SD	0.3	0.9					
2004	1	3.0	4.2	5.2				
	SD	0.0	0.0	0.0				
2003	1	2.5	5.1	6.8	8.2			
	SD	0.0	0.0	0.0	0.0			
2002	0	0.0	0.0	0.0	0.0	0.0		
	SD	0.0	0.0	0.0	0.0	0.0		
2001	0	0.0	0.0	0.0	0.0	0.0	0.0	
	SD	0.0	0.0	0.0	0.0	0.0	0.0	
2000	2	3.0	4.3	6.0	7.1	8.2	9.0	9.8
	SD	0.1	0.1	0.5	0.3	0.1	0.0	0.4
Mean*		3.1	3.7					
SD		0.0	0.9					

*Does not include age groups with less than three samples.

Age-length key for yellow perch captured at Round Lake, Wabash County, Indiana in June 2007.

Length Group	# in sample	# (age) in subsample	Age 1	2	3	4	5	6	7
1.0									
1.5									
2.0									
2.5									
3.0									
3.5	6	2(1), 3(2)	2	4					
4.0	5	1(1), 2(2)	2	3					
4.5									
5.0									
5.5									
6.0	1	1(3)			1				
6.5	1	1(2)		1					
7.0									
7.5									
8.0									
8.5									
9.0	1	1(4)				1			
9.5									
10.0	1	1(7)							1
10.5	1	1(7)							1
Mean TL			4.0	4.3	6.3	9.3			10.5
SE			0.14	0.36					0.25

Sampling gear locations at Round Lake, Wabash County, Indiana in June 2007.

		Gill Nets		
1	N	40.97339	W	-85.84802
2	N	40.97593	W	-85.84426
3	N	40.97208	W	-85.84451
		Trap Nets		
1	N	40.97287	W	-85.84287
2	N	40.97516	W	-85.84633